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Non-perturbative aspects of composite Higgs models

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Abstract: We live in a golden age for the study of non-perturbative aspects of field theories. Developments in effective field theory, gauge-gravity dualities, and lattice field theories make it possible to study with unprecedented accuracy models of new physics with strongly coupled origin, with relevant examples taken from the literature on composite Higgs models. We discuss in particular the current programme of exploration of lattice $Sp(2N)$ gauge theories, highlighting some of its results, and proposing future directions of study.

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